L Number	Hits	Search Text	DB	Time stamp
-	()	boucle\$1 and (bradj3 filament\$3) and (aramid\$1 or keylar or nomex)	USPAT	2003 (01) 21 11:46
-	()	boucle\$1 and (bi adj3 filament\$3) and (aramid\$1 or kevlar or nomex)	USPAT: EPO; JPO; DERWENT	2003/01/07 12:12
	156	houcle\$1	USPAT; EPO; JPO; DERWENT	2003/01/07 12:15
	()	f*4120914* **4198494* **5299602	USPAT	2003/01/09 17:02
-	46	("4120914" "4198494" "5299602" "5305593" "5336734" "5356666" "5389326" "5468537") and filament	USPAT	2003/01/21 13 57
	33		USPAT	2003/01/07 13/23
	17	5323815	USPAT	2003/01/07 13-16
	6	marcanada	USPAT	2003/01/07 13-23
-	l	"4141082".PN.	USPAT	2003/01/07 13-27
•	1	"4287608".PN.	USPAT	2003/01/07 13:27
	1	"4662006",PN.	USPAT	2003/01/07 13:32
	1	"5131097".PN.	USPAT	2003/01/07 13:32
-	l	"5136723".PN.	USPAT	2003/01/07 13:32
-	l	"5189737".PN.	USPAT	2003/01/07 13:32
-	1	"5198280".PN.	USPAT	2003/01/07 13:32
-	1	5202086°,PN.	USPAT	2003, 01-07 13:32
	l	"5189737".PN.	USPAT	2003/01/07 13:33
/Ie	1	5202086 .PN.	USPAT	2003) 01, 07 13:33
-	1	"5299602",PN.	USPAT	2003/01/07 13:33
	7.4	4120914 4198494 5299602 5305593 5336734 5356666 5389326 5468537	USPAT	2003 01 08 17:29
	*)	(4120014 1198494 5299602 5305593 5326734 5350600 5789326 5468537 133d (tail adjust) or boucley	USPAT	2003 (1) 48 17.39
	92	((air adj jet) or boucle) and (filament) and (aramid\$1 or keylar or nomex) and (weave\$3 or woven\$3)	USPAT	2003 01 08 17:40
	28	((air adj jet) or boucle) and ((multi-filament) or (multifilament) or (bifilament) or (bi-filament)) and (araimid\$1 or keylar or nomex) and (weave\$3 or	USPAT	2003:01:08 17:41

1	5397627.pn.	USPAT	2003 01 09 09:46
1 1	5397627	USPAT	2003 01:09
()	"5397627" and (MPIA or TEIJINCONEX or (poly adj- metaphenylene adj isophthalamide)	USPAT	2003/01/09
175	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide)	USPAT	2003 01 09 09 46
()	(MPIA or TEIJINCONEN or (poly adj metaphenylene adj isophthalamide) or (para adj	USPAT	2003 01 09 09 47
453	aram:d\$1) or (para-aramid\$1)) and "5397627" (MPIA or TEIJINCONEX or (poly adj	USPAT	2003/01/09
	metaphenylene adj isophthaltimide) or (para adj aramid\$1) or (para-aramid\$1))		09:48
278	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj	USPAT	2003/01/09 09:48
110	aramid\$1) or (meta-aramid\$1)) (MPIA or TEIJINCONEN or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWAEON or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or	USPAT	2003 01,09 15:36
11	(para-aramid\$1) (MPIA or TEIJINCONEX or (poly adj metaphenylene adj (sophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWAFON or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or	USPAT	2003/01/09 09:49
()	(para-aramid\$1)) and entangl\$4 (MPIA or TEIJINCONEN or (poly ad) metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and ((multi-component\$1) or (multi adj component) or (bi-component\$1) or (bi	USPAT	2003/01+09 10:05
190	adj component)) (MPIA or TEIJINCONEN or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWAFON or KEVLAF or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1))	USPAT	2003/01/09 17:00
O	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj ar imid\$1) or imeta aramid\$1)) and (PPTA or FWAFO), or KEVLAF or ipoly adj paraphenylene adj to ej it radamide or ipara adj a ramid\$1) or (para aramid\$1)) and (ib) adj component\$1) or (b) component\$1(or im diract component\$1) or (multi-component\$1))	USPAT	2003/01/09 15:38
76	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)] and (PPTA or TWAEON or KEVLAF or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or	USPAT	2005/01/09 17:03

.3	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)] and (PPTA or TWARON or KEVLAR or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)] and (C4120914 - 4198494 ' "5299602' "5305593" "5336734 "5356666" "5389326" "5468537"))	USPAT	2003 01 15 10:40
1	4120914.pn.	USPAT	2003, 01-09 17:05
1	4120914.pn.	USPAT	2003 01 10 09:39
U	"B378760".PN.	USPAT	2003/01/10 08:58
()	B378760°,PX.	USPAT	2003/01/10 08.58
1	"3817941".PN.	USPAT	2003/01/10 08:58
22	"4120914"	USPAT	2003/01/10 09:39
454	(MPIA or TELJINCONEX or (poly adj metaphenylene adj isophthalamide) or (para adj aramid\$1) or (para-aramid\$1))	USPAT	2003/01/15 10:34
1987	428/921	USPAT	2003/01/15 10:40
1663	(428/921).CCLS.	USPAT	2003/01/15 10:41
2	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or KEVLAR or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and ((428/921).CCLS.)	USPAT	2003/01/15 10:50
76	(MPIA or TELJINCONEX or (polv adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or KEVLAF or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and filament	USPAT	2003/01 ² 15 10°50
76	(MPIA or TELJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or KEVLAF or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and filament\$2	USPAT	2003/01 15 16:36
1	3767756 _x PN ₂	USPAT	2003 01 15 10:59
ì	3860420 (P)	U~PAT	2003 01 18 10:59
1	1120914 PX	U×PAT	2003 01 15 10:59
1	4198494 ;PX;	USPAT	2003 01 15 10:59
1	*4228218 .P.V.	USPAT	2003 01 15 10:59
•	F228.018 (PK)	USPAT	2003-031

1	"4888091".PX.	USPAT	2003 ⁷ 01 ⁻ 15 11 00
42	(264 [†] 904).CCLS	USPAT	2003 01°15 16 36
40	(MPIA or (m adj.3 aramid) or (m-aramid) or TELJINCONEX or (poly adj.3 metaphenylene adj.3 isophthalamide) or (polymetaphenylene adj.2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (para-aramid\$1) or (para-aramid) or (kEVLAR) or twaron or PPTA or (poly adj.3 paraphenylene adj.2 terphthalamide)) and filament\$3	USPAT	2003 01, 21 11 54
29()	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and filament\$3	USPAT	2003/01/16 09:14
216	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj3 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and filament\$3 and yarn\$3	USPAT	2003/01/22 00:33
1	4159618.pn.	USPAT	2003/01/16 10:18
1	"2369876".PN.	USPAT	$\frac{2003}{01/16}$
1	"3843587".PN.	USPAT	2003/01/16 10:11
1	"3881977".PN.	USPAT	2003/01/16 10:11
1	14056651°.PN.	USPAT	2003/01/16 10:11
727	Nomex and Kevlar	USPAT	2003/01/16 10:18
224	Nomex and Kevlar and yarn and (filament\$2 or continuous)	USPAT	2003/01/16 14:14
40	Nomex same Kevlar same yarn\$2 same (filament\$2 or continuous)	USPAT	2003/01/16 10:19
1.3	Nomey same Keylar same varn\$2 same mlament\$2 or continuous)	USPAT; EPOL/IPO, DERWENT	2003 01 16 13(+)
}~	(72915) (535516 1237187	USPAT: ÉPO: JPO, DERWENT	<u>-400 (0) (0)</u>
ī	aramid and (partially adj2 orient\$3 adj3 (fiber\$2 or filament\$3))	USPAT	2003, 01°16 13:54
1+0	"9104855"	USPAT: EPO: JPO: DERWENT	2003/01/16 13:56
<u>.</u> 2	0207422 0310199 3624115	USPAT.	2003 01 16

		_	
192	(57, 244).CCLS.	USPAT	2003 01 16 14:38
3	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and ((57/244).CCLS.)	USPAT	2003/01/21 14:17
1	5397627.pn.	USPAT	2003 01 / 16 15:26
()	boucle\$1 and (aramid\$1 or keylar or nomex)	USPAT	2003 · 01 · 21 · 11:46
()	(MPIA or (m. adj.3 aramid) or (m. aramid) or TELJINCONEX or (poly adj.3 metaphenylene adj.3 isophthalamide) or (polymetaphenylene adj.2 isophthalamide)) and ((para adj.aramid\$1) or (para-aramid\$1) or (p-aramid) or (p. adj.2 aramid) or (KEVLAE) or twaron or PPTA or (poly adj.3 paraphenylene adj.2 terphthalamide)) and boucle	USPAT	2003;01721 14:25
8	(MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (polv adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and entangl\$3	USPAT	2003/01/21 11:48
1	5399418.pn.	USPAT	2003/01/21 11:55
1	"4923741".PN.	USPAT	2003/01/21 11:54
1	5014755 .PN.	USPAT	2003 - 01: 21 11:55
29	"5399418"	USPAT	2003/01/21 11:55
O	"5399418" and (MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide))	USPAT	2003/01/21 11:56
: 27	(MPIA ct (m. adj3 aramid) or (m. aramid) or TEL/IIXCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para manid\$1) or (para manid\$1) or (para manid\$1) or (EVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)	USPAT	2003/01/21 11/57
£2C)	(MPIA of im add3 aramid) or im aramid) or TEL/INCONEX or (poly add3 metaphenylene add3 isophthalamide) or (polymetaphenylene add2 isophthalamide)) and ((para adj aramid\$1) or constant and aramid\$1) or constant and aramid\$1.	USPAT	2003 (01-21) 14(22)

	1	4120914.pn	USPAT	2003 01 21 13:41
	51	(4120914 4198494 5299602 5305593 5336734 5356666° 5389326 5468537) and (denicr\$3 or tex\$3)	USPAT	2003 01 21 13:58
	1	(4120914 "4198494" 5299602 "5305593" 5336734" "5356666" "5389326" "5468537" J and (denier\$3 or tex\$3) and (MPIA or (m adj3 aramid) or (m aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaton or PPTA or (poly adj3 paraphenylene adj2 terphthalamide))	USPAT	2003; 01 - 21 14:03
	22	"4120914"	USPAT	2003/01/21 14:03
	O	"B378760".PN.	USPAT	2003/01/21 14/03
-	O	"B378760".PN.	USPAT	2003/01/21 14/03
-	1	3817941°.PN.	USPAT	2003/01/21 14/03
	1	38694291.PN.	USPAT	2003/01/21 14/03
-	1	"3869430".PN.	USPAT	2003/01, 21 14.03
-	4	"6146759"	USPAT	2003/01/21 14:18
-	1	"3366001".PN.	USPAT	2003/01/21 14:20
	1	"3439491".PN.	USPAT	2003/01/21 14:21
-	1	"3729920".PN.	USPAT	2003/01/21
-	1	"3828544",PN.	USPAT	14:21 2003/01/21
-	81279	1593" "048"	EPO; JPO;	14:21 2003/01/21
		57-59585	DERWENT	14:24
		58 100323		
		00-107608		
		61.26(330)		
		1.141041		

()	57-59585	EPO; JPO; DERWENT	2003/01/21 14:24
	58-100323		
	60 107608		
	61-261330		
	1-141041		
1.2	5759585	EPO, JPO; DERWENT	2003 (01 - 21 14:24
	58100323	DEBARDA	14.24
	60107608		
	"61261330"		
	1141041"		
14	(MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3	EPO: JPO: DEEWENT	2003/01/21 14:29
127	paraphenylene adj2 terphthalamide)) (MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide))	USPAT	2003/01/21 14:29
60	(MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and (demer\$3 or decitex\$3 or dtex\$3 or thinear adj2 densit\$3).	USPAT	2003/01/21 15:18
	MPIX or (m. ad 3 aramid) or (m. aramid) or TELHXCONEX or (polymetaphenylene ad 3 isophthalamide) or (polymetaphenylene ad)2 isophthalamide)) same (filament\$3 same (tex\$3 or dener\$3 or dex\$3 or decuex\$3 or (linear ad)?)	USPAT	2000 (*) 21 1500
38	(MPIA or the adity aramid) or the aramid) or TEL/INCONEX or (poly ady) a metaphenylene adv3	USPAT	2003 01 21 15:32

	34	(MPIA or (m adj3 aramid) or (m aramid) or TELUNCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) same varu\$3	USPAT	2003 01 22 09:09
	20	(MPIA or (m adj3 aramid) or (m aramid) or TEL/INCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) same yarn\$3 and (tex\$3 or decitex\$3 or denier\$3 or dtex\$3 or (linear adj3 densit\$3))	USPAT	2003 01 21 15:41
	161	(57/200).CCLS.	USPAT	2003/01,21 15:41
	()	(MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and (tex\$3 or decitex\$3 or denier\$3 or dtex\$3 or (linear adj3 densit\$3)) and ((57/200).CCLS.)	USPAT	2003701×21 15:42
	135	(MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and (tex\$3 or decitex\$3 or denier\$3 or dtex\$3 or (linear adj3 densit\$3))	USPAT	2003/01/21 15:44
-	1	"4031188".PN.	USPAT	2003/01, 22 08:52
-	l	"4081498",PN,	USPAT	2003/01/22 08.53
-	1	"4331729".PN.	USPAT	2003/01/22 08.54
-	1	"4365655",PN.	USPAT	2003/01/22 08:55
	1	"4865906",PN.	USPAT	2003/01/22 08:56
-	1	"4902561".PN.	USPAT	2003/01/22 08:57
-	1	"4987664".PN.	USPAT	2003/01/22 08:58
-	1	"4987664".PN.	USPAT	2003/01/22 08:58
-	1	"5015522".PN.	USPAT	2003/01/22 09:00
	1	"5015322",PN.	USPAT	2000/01/22 09:00
-	1	"5188896".PN.	USPAT	2003/01/22 ()9·():)
	ŀ	5188896 (PM	USPAT	200 - 01 22 09:01
	i	S222736 .PH	USPAT	2007 01 22 09:01
	•	527,5873 PU	USPAT	2007 01 22
-	1	"5356707",PN.	USPAT	2003±01/22 -09.02
	1	"5582912 .PX.	USPAT	2003 03 22 -09,05
	1	5688577 .PN.	USPAT	200., 01-22

-	.3	6287686	USPAT	2003 01 22 09:28
¥	1	4108494° PX.	USPAT	2003:01:22
-	1	"4282283",PN.	USPAT	09:21 2003 01 22
	1	"4941884".PN.	USPAT	09;21 2003 01 22
-	1	5534325 .PN	USPAT	09,22 2003-01:22
-	1	5534325" PN	USPAT	09,22 2005/01/22
-	1	"5560990".PN	USPAT	09:22 2003/01#22
-	1	"5824614".PN.	USPAT	(09)22 2003/01/22
-	1	"5849648".PN.	USPAT	09;23 2003/01/22
_	1	"5849648".PN.	USPAT	09:23 2003/01/22
	1	"5853880".PN.	USPAT	09:23 2003/01/22
-				09:23
-	1	"5888652".PN.	USPAT	2003/01/22 09:23
-	1	"5918453",PN.	USPAT	2003/01/22 09:27
-	1	"5918453".PX.	USPAT	2003/01/22 09:28
-	1	'6102128".PN.	USPAT	2003/01/22 09:28
-	1	"5918453".PX.	USPAT	2003/01/22
-	1	"6102128",PN.	USPAT	09:28 -2003/01/22
-	O	~2001/0034897~.PX.	USPAT	09:28 2003/01/22
-	8	~19617b34~	USPAT	09:28 2003/01/22
		"2104929"		09:29
		"2253194"		
-	21	19617634"	USPAT;	2003/01/22
		2104929	EPO: JPO: DERWENT	()9;3()
		2253 (9)		
	1	keylar and nomex	JPO	2003:01-22
				()9;3()
-	1	p-aramid and m-aramid	,IPO	2003 °01 - 22 09:30
	17.50	Named at MPIA at the whole a construction of a state	1.8.1 × 7.11.	

374	(Nomex or MPIA or (m adi3 aramid) or (m-aramid) or TEIJINCONEX or (poly adi3 metaphenylene adi3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and yarn\$3 and (denier\$3 or dtex\$3 or decitex\$3 or tex\$3 or (linear adj2 densit\$3))	USPAT	2003 01 22 09:35
64	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) same yarn\$3 same (denier\$3 or dtex\$3 or decitex\$3 or tex\$3 or (linear adj2 densit\$3))	USPAT	2003/01/22 09:41
181	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) same (demer\$3 or dtex\$3 or decitex\$3 or tex\$3 or (linear adj2 densit\$3))	USPAT	2003, 01, 22 09:42